

CLAIMS

1. A cross-linkable compound comprising a perfluoropolyether (PFPE) moiety which is ultimately terminated by an oxygen atom and bonded through a spacer attached to the said oxygen atom with an ethylenically unsaturated group, wherein the spacer extends over at least three atoms between the oxygen atom and the ethylenically unsaturated group.
2. A compound according to claim 1, wherein the spacer extends over at least four atoms.
3. A compound according to claim 1 or claim 2, wherein the atoms of the spacer are carbon atoms.
4. The cross-linkable compound of claim 1 or claim 2, having the formula:
 $D-(C_nF_{2n}O)_m-Q-B-A$, wherein
A stands for an ethylenically unsaturated group of the formula $HR_1C=CR_2R_3$, wherein R_1 is selected from H, alkyl, phenyl, alkyl-substituted phenyl and aralkyl; R_2 is selected from H, alkyl, phenyl, alkyl-substituted phenyl and aralkyl and R_3 is a bond or $Si(R_4)_2$, R_4 being independently H or alkyl;
B stands for a hydrocarbyl or fluorocarbyl spacer extending over at least three carbon atoms;
 $(C_nF_{2n}O)_m$ is the PFPE moiety wherein n is independently an integer of 1 to 4 and m is an integer of 2 to 500;
Q stands for a terminating group selected from CF_2-CH_2-O and CH_2-CH_2-O and
D stands for $HO-CH_2CF_2-O-$ or $A-B-Q-O-$, wherein n, A, B, and Q have the previously given meanings.
5. The cross-linkable compound of claim 4 wherein the hydrocarbyl spacer extends over at least four carbon atoms.
6. The cross-linkable compound of claim 4 wherein A stands for $H_2C=CH-$.

7. The cross-linkable compound of claim 4 wherein D is A-B-Q-O-, Q stands for $\text{CF}_2\text{-CH}_2\text{-O-}$, and B-A has the formula $\text{-C}_6\text{F}_4\text{-CH=CH}_2$ or $\text{-(CH}_2\text{)}_o\text{-Si(CH}_3\text{)}_2\text{-CH=CH}_2$, wherein o is 3 or 4.
- 5 8. A process for preparing the cross-linkable compound of claim 1 comprising reacting a hydroxy-terminated perfluoropolyether (PFPE) compound with a compound of the formula A-B-Hal, wherein A is an ethylenically unsaturated group, B is a spacer which extends over at least three atoms and Hal is F, Cl, Br or I.
- 10 9. A process according to claim 8, wherein A stands for an ethylenically unsaturated group of the formula $\text{HR}_1\text{C=CR}_2\text{R}_3$, wherein R_1 is selected from H, alkyl, phenyl, alkyl-substituted phenyl and aralkyl; R_2 is selected from H, alkyl, phenyl, alkyl-substituted phenyl and aralkyl and R_3 is a bond or $\text{Si(R}_4\text{)}_2$, R_4 being independently H or alkyl; and B stands for a hydrocarbyl or fluorocarbyl spacer extending over at least three carbon atoms.
- 15 10. A perfluoropolyether rubber obtainable by hydrosilating the cross-linkable compound of claim 1.
- 20 11. An apparatus for transferring a toner image from an image-forming medium to a receiving medium comprising:
an endless movable intermediate medium including a support provided with a top layer secured to the support via a rear surface, the intermediate medium being in contact with the image-forming medium in a first transfer zone;
- 25 heating means for heating the toner image on the top layer of the intermediate medium; a biasing means for contacting the intermediate medium in a second transfer zone; and transport means for transporting the receiving medium through the second transfer zone, wherein the top layer comprises the perfluoropolyether rubber of claim 10.